

# What is OSG? (What does it have to do with you?)

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# Some Hypothetical Problems

- Lot's of hype in software marketing...
  - The Devil is in the details
- Setting up a grid is non-trivial
  - no matter what you read
  - Lots of trial and error ☺
- Difficult to know what “works”
  - “I’m a scientist” “I don’t want to spend all my time w/CS”
- Which components do I need?
  - If I pick package X, will it work with Y? Which Versions?
- Which components are production ready?
- Where do I get each one?

The problems are not all technical...

# Problems are not just “technical”

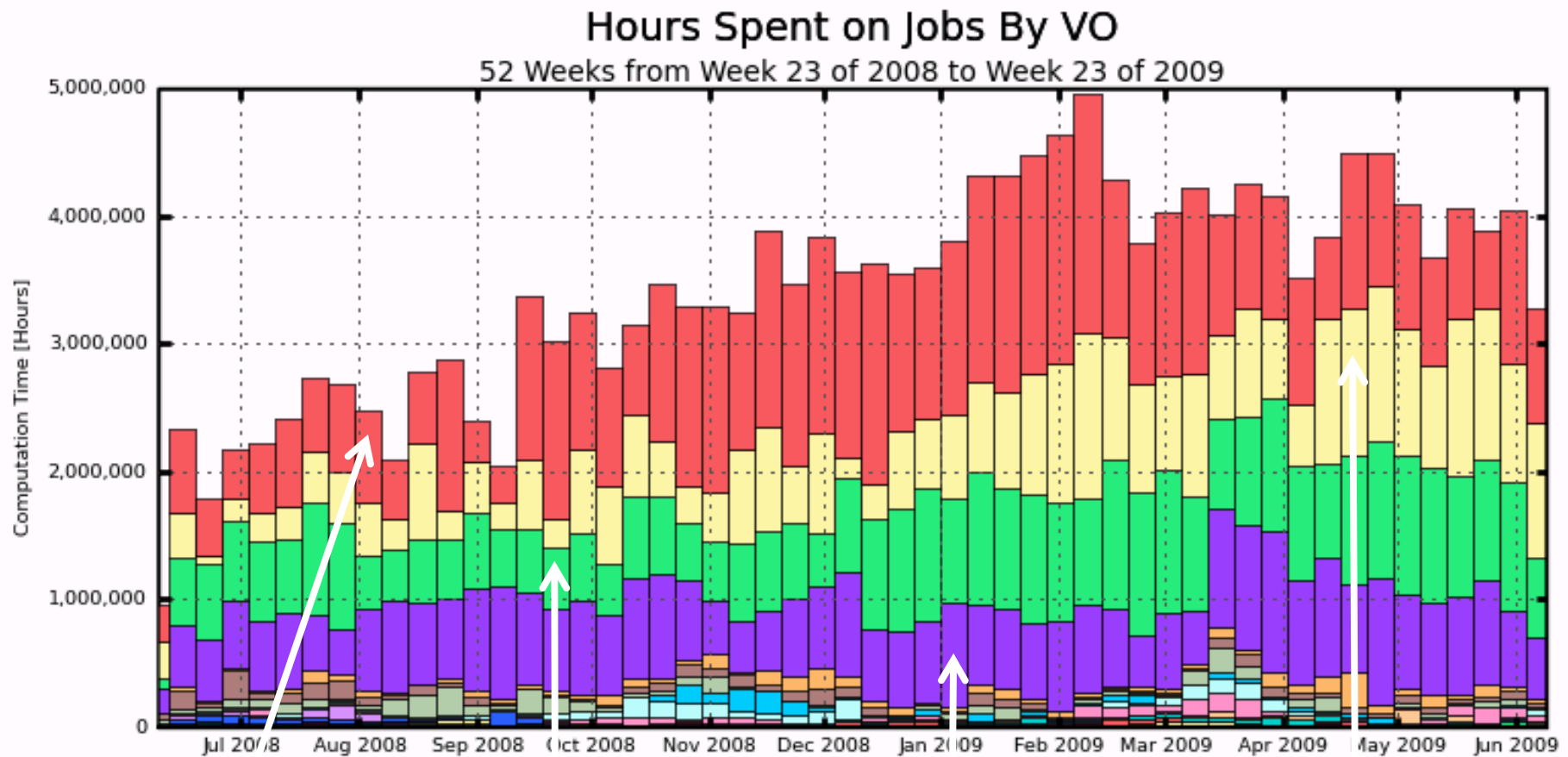
- Can we work together?
- Can we be compatible?
- Can we share our efforts?
  - Software design and reuse
    - OSG does not develop software
  - Stack design & integration
  - Operation best practices
- What about monitoring/accounting?
- Must we always reinvent the wheel?

# OSG Focused on these problems

- Create a common grid infrastructure
  - Based on working with the community (not independent)
  - Improve compatibility
  - Sites still autonomous, can experiment with different options
  - Successful combos often make it back into the VDT
- Test software combinations (so you don't need to)
- Integrate commonly used components
- Recommend & Propagate best practices
- Package results for centralized download
- Offer a centralized support structure
- Build a “community” for those who manage and operate grid infrastructures
  - Includes large sites + those who are just startin



# OSG used by many VOs (old)



CMS

CDF

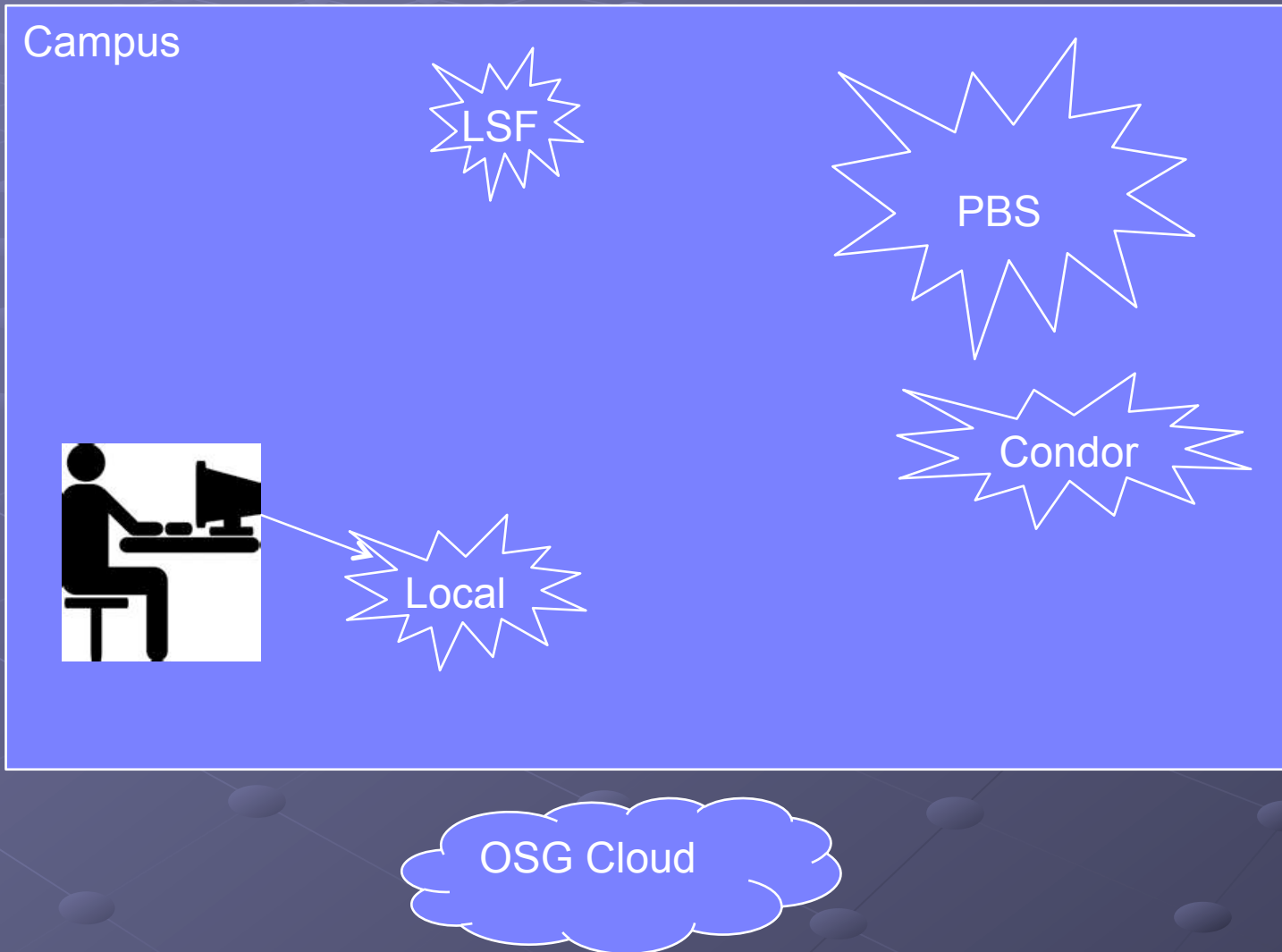
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ATLAS

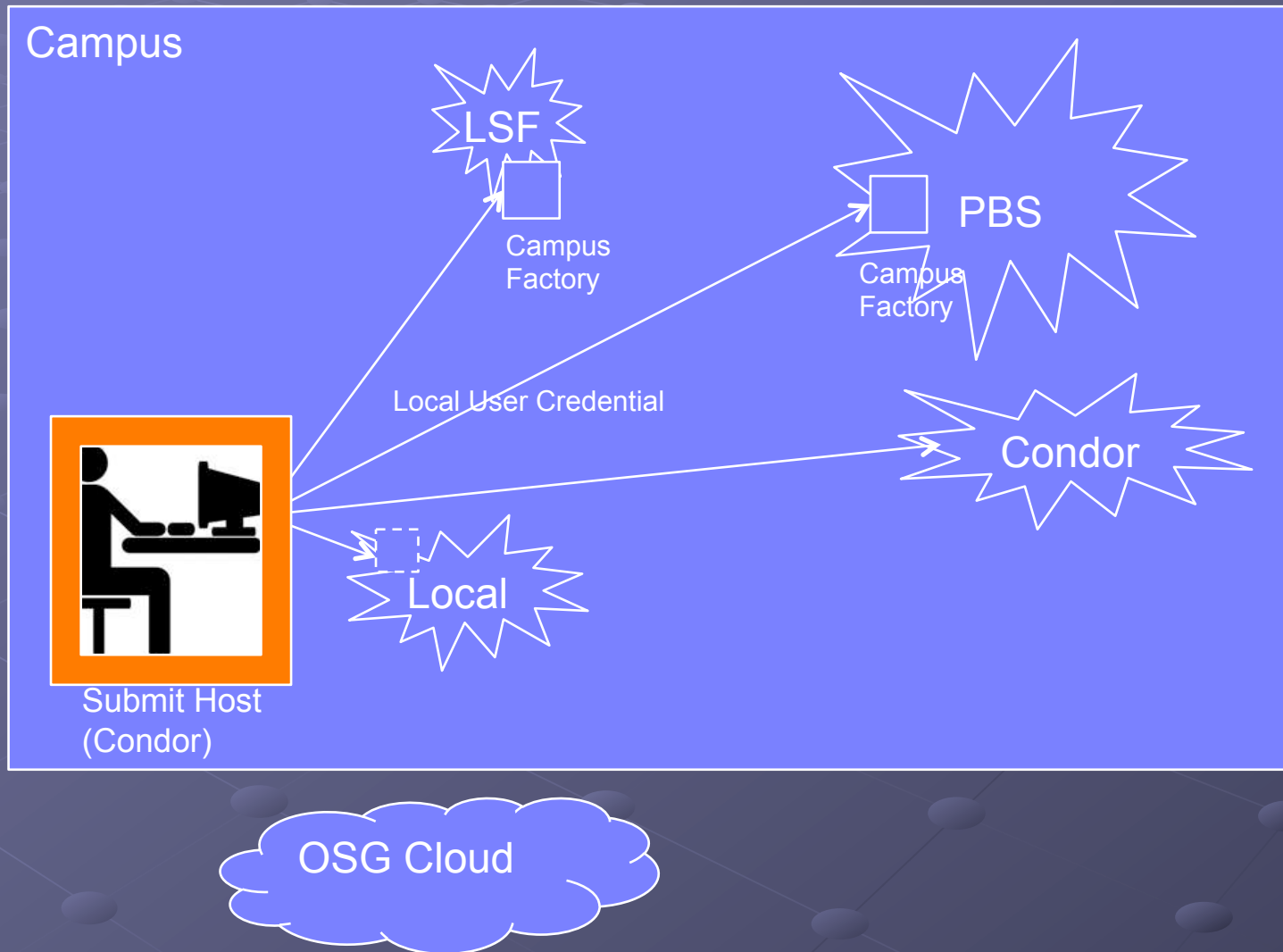
# Relatively New Things

- Best Practice to use Pilot job submission:
  - Glide-inWMS (CMS, most other VO's)
  - PANDA (Atlas)
- HTPC (High Throughput Parallel Computing)
  - Submit whole node/machine jobs
- Campus Grid Infrastructures
- New relationship with XSEDE (TeraGrid)

# Easy way to utilize additional campus resources

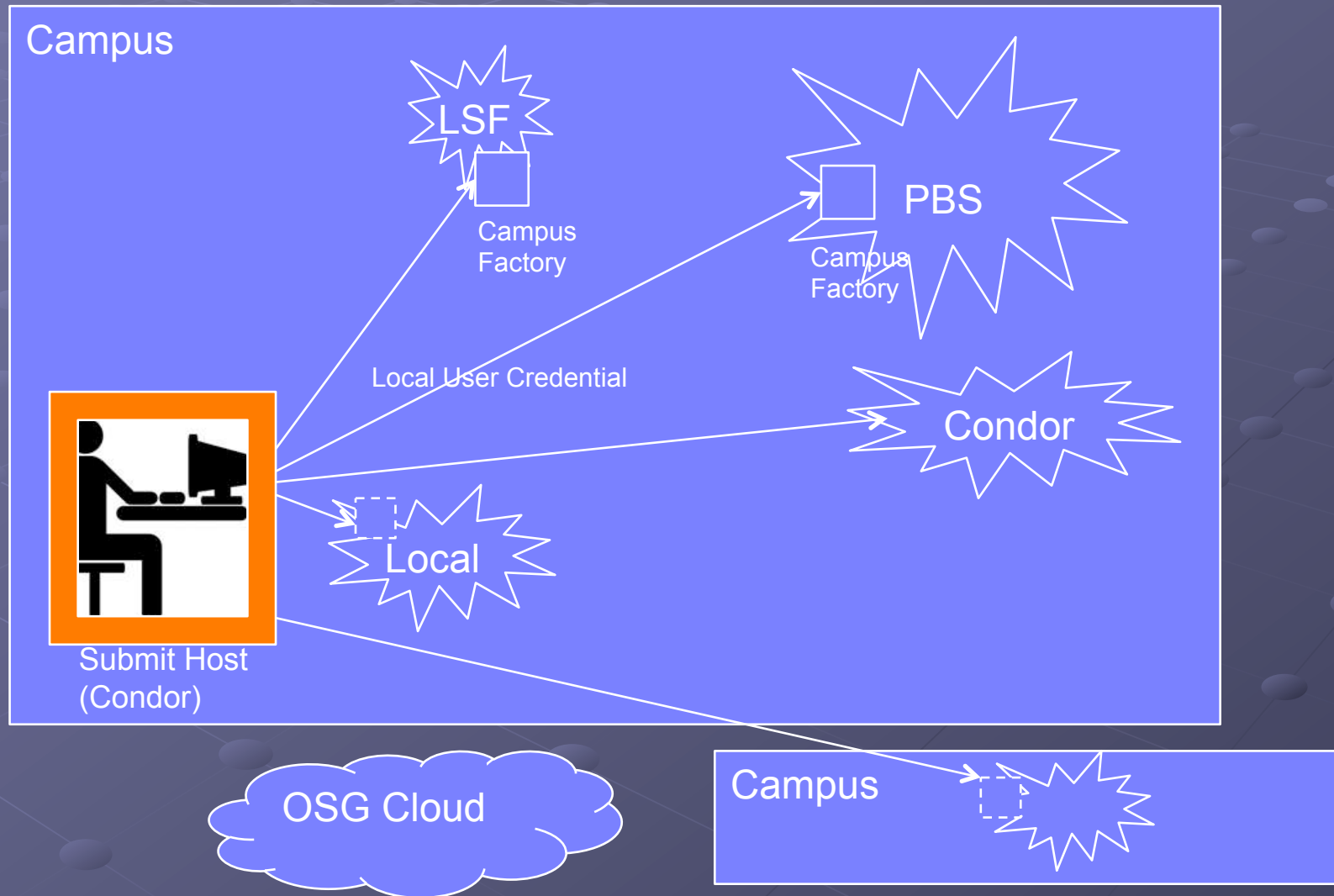


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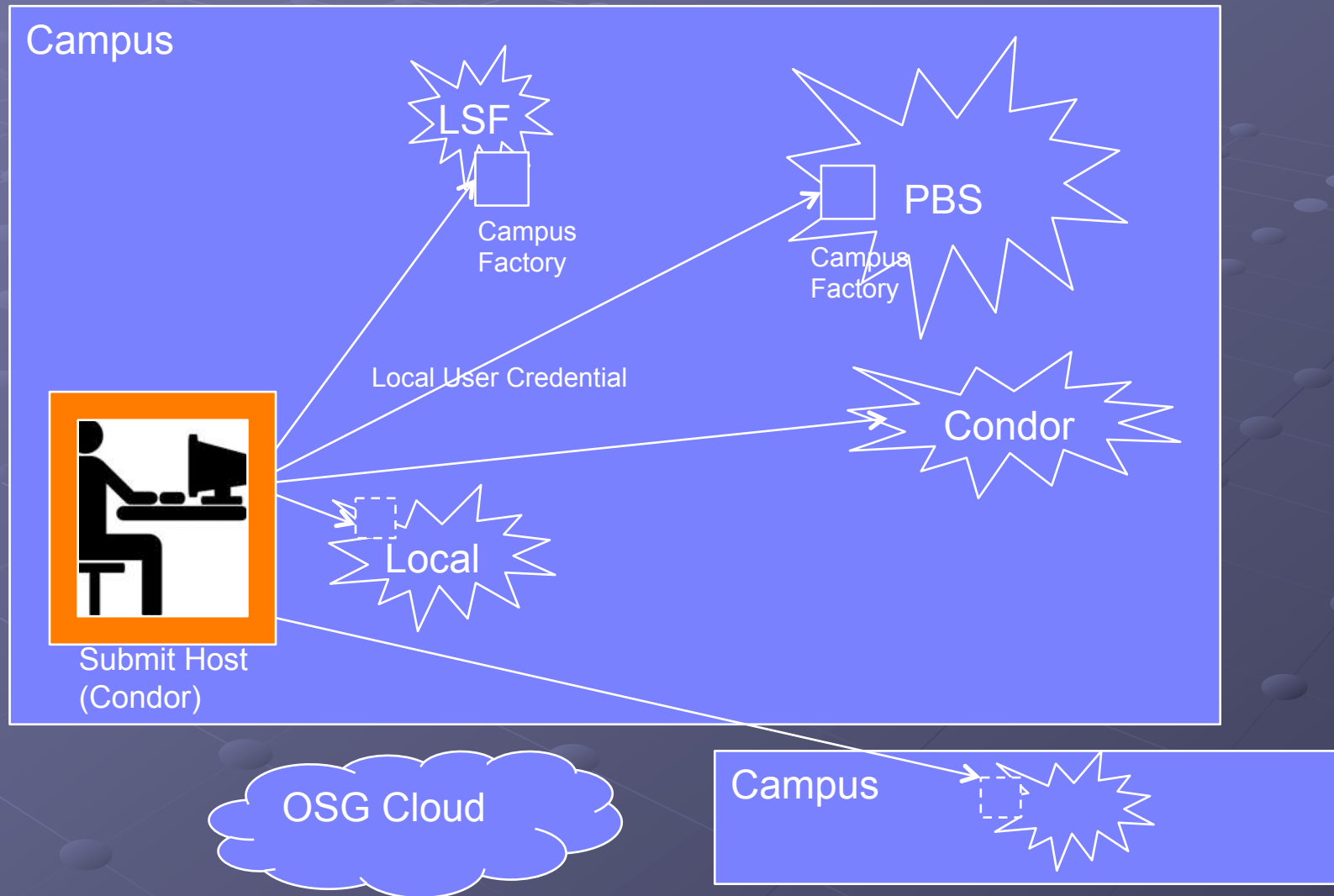




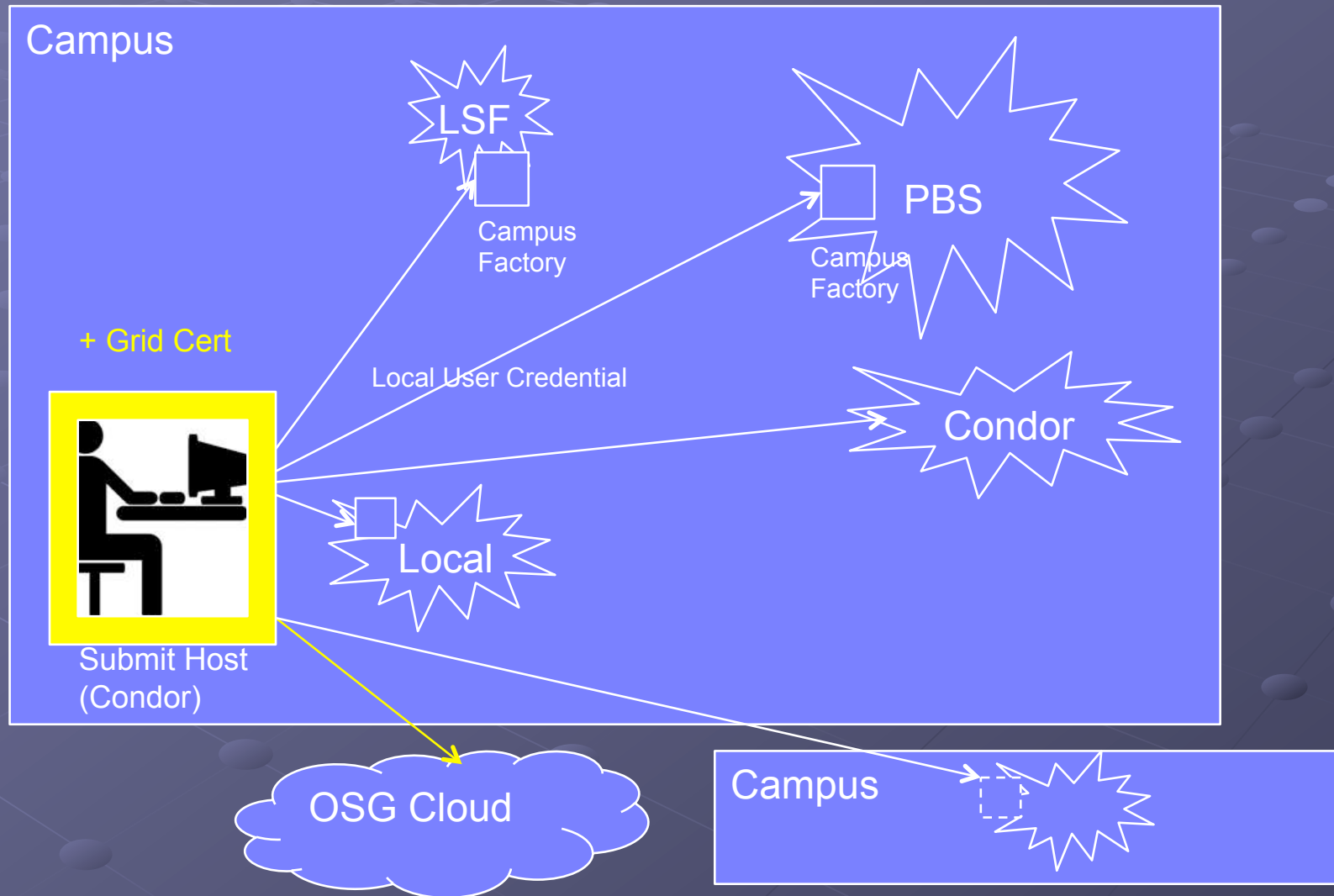
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# Enjoy the Workshop

- Choose your topics
- Move freely between User and Admin tracks
- Ask questions, try things out
- Have fun!